Justification Document for the Selection of a CoRAP Substance

Substance Name (public name): 3,5,5-trimethylhexanoic acid

EC Number: 221-975-0

CAS Number: 3302-10-1

Authority: UK CA

Date: 22/03/2016

20/03/2018

Note

This document has been prepared by the evaluating Member State given in the CoRAP update 2017-2019. In CoRAP update 2018-2020 the evaluation of this substance has been reassigned to Spain.

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1 IDENTITY OF THE SUBSTANCE

1.1 Other identifiers of the substance

Table: Other Substance identifiers

3,5,5-trimethylhexanoic acid
3,5,5-trimethylhexanoic acid
NA
C9H18O2
158.24

Type of substance	☐ Multi-constituent	☐ UVCB

Structural formula:



1.2 Similar substances/grouping possibilities

Not applicable

2 OVERVIEW OF OTHER PROCESSES / EU LEGISLATION

Table: Completed or ongoing processes

RMOA		\square Risk Management Option Analysis (RMOA)				
	tion	☐ Compliance check, Final decision				
Ñ	Evaluation	☐ Testing proposal – complete – dossier updated				
esse	EV	☐ CoRAP and Substance Evaluation				
REACH Processes	Authori- sation	☐ Candidate List				
EACH	Auth	☐ Annex XIV				
Ω.	Restri -ction	☐ Annex XVII				
Harmonised C&L		☐ Annex VI (CLP) (see section 3.1)				
Processes under other EU legislation		☐ Plant Protection Products Regulation				
Processes Inder othe J legislatic	Regulation (EC) No 1107/2009 Biocidal Product Regulation					
Pr unc EU I	Regulation (EU) 528/2012 and amendments					
		☐ Dangerous substances Directive				
us ion	Directive 67/548/EEC (NONS)					
Previous egislation	☐ Existing Substances Regulation					
Pr leg	Regulation 793/93/EEC (RAR/RRS)					
(UNEP) Stockholm convention (POPs	☐ Assessment					
(UNEP) Stockholm convention (POPs Protocol)	☐ In relevant Annex					
Other / EU / EU Divoresses		\square Other (provide further details below)				

3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)

3.1 Classification

3.1.1 Harmonised Classification in Annex VI of the CLP

No harmonised classification is available for the substance.

3.1.2Self classification

• In the registration:

Acute tox 4, H302 Harmful if swallowed

Skin irrit 2, H315 Causes skin irritation

Eye damage 1, H318 Causes serious eye damage

• The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:

Eye irrit 2, H319 Causes serious eye irritation

STOT SE 3, H335 (resp system, inhalation) May cause respiratory irritation Unclassified

3.1.3Proposal for Harmonised Classification in Annex VI of the CLP

Not applicable

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4 INFORMATION ON (AGGREGATED) TONNAGE AND USES¹

4.1 Tonnage and registration status

Table: Tonnage and registration status

From ECHA dissemination site

□ Full registration(s) (Art. 10))	☐ Intermediate registration(s) (Art. 17 and/or 18)					
Tonnage band (as pe	r dissemi	nation si	te)					
☐ 1 - 10 tpa			□ 10) –	100 tpa		□ 100 - 10	☐ 100 - 1000 tpa	
□ 1000 - 10,00	00 tpa	ı	□ 10	□ 10,000 – 100,000 tpa			☐ 100,000 - 1,000,000 tpa		
☐ 1,000,000 - tpa	10,00	00,000	□ 10 tpa	☐ 10,000,000 - 100,000,000 tpa			□ > 100,000,000 tpa		
⊠ <10,000>+	tpa (e.g. 10+	; 100+ ;	100+ ; 10,000+ tpa)		☐ Confider	☐ Confidential		
Joint submission									
4.2 Overview of uses Part 1:									
⊠ Manufacture	Forn	nulation	⊠ Industri use	al	Professional use	Consumer use	☐ Article service life	☐ Closed system	
Part 2:									
	i di Cal			Use(s)					
Uses as A intermediate		At industrial sites. Not SCC.							
Formulation Preparati			tions	ons					
			pratory use						
Uses at industrial sites		metal working fluids / rolling oils							
		lubricants							
		functional fluids							
		use as intermediate (non SCC)							

 $^{^{\}mathrm{1}}$ Date when the dissemination site was accessed – May 2015

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	functional fluids
Uses by professional	laboratory use
workers	lubricants
	metal working fluids / rolling oils

5. JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP **SUBSTANCE** 5.1. Legal basis for the proposal △ Article 44(2) (refined prioritisation criteria for substance evaluation) ☐ Article 45(5) (Member State priority) **5.2. Selection criteria met** (why the substance qualifies for being in CoRAP) □ Fulfils criteria as CMR/ Suspected CMR ☐ Fulfils criteria as Sensitiser/ Suspected sensitiser ☐ Fulfils criteria as potential endocrine disrupter ☐ Fulfils criteria as PBT/vPvB / Suspected PBT/vPvB \boxtimes Fulfils criteria high (aggregated) tonnage (tpa > 1000) ☐ Fulfils exposure criteria ☐ Fulfils MS's (national) priorities 5.3 Initial grounds for concern to be clarified under Substance Evaluation Hazard based concerns CMR Suspected CMR² ☐ Potential endocrine disruptor \square C \square M \square R \square C \square M \boxtimes R ☐ Sensitiser ☐ Suspected Sensitiser² ☐ Other (please specify below) ☐ Suspected PBT/vPvB² ☐ PBT/vPvB Exposure/risk based concerns ☐ Exposure of sensitive ☐ Wide dispersive use ☐ Consumer use populations \square Exposure of ☐ Cumulative exposure environment ☐ High RCR ☐ High (aggregated) tonnage ☐ Other (please specify below)

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

² <u>CMR/Sensitiser</u>: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory) <u>Suspected CMR/Suspected sensitiser</u>: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

A developmental toxicity study in rats has been conducted according to OECD test guideline 414. In this study morphological changes indicative of delayed development, such as supernumerary and wavy ribs and delayed ossification, were reported at the top dose, together with severely altered rib cages that were reported to result in malformations. This was in the presence of maternal toxicity. From the information available in the dossier it is not clear whether the findings reported are malformations or are the result of variations/delayed development.

Also reported is a yellow discolouration of the foetal livers. This finding was seen in all dose groups in the absence of maternal toxicity and showed a dose-response relationship. There were no underlying morphological changes or histopathology to explain the finding. A one generation range/screening study according to OECD guideline 415 was available, but this did not include histopathology on the pups so provided no information on the persistence of the discolouration post-partum. However, the study reported no effects on the pups in terms of either survival or clinical signs, other than in the presence of maternal toxicity.

These effects raise concern that the substance might be a developmental toxicant in rats. No developmental study in a second species is available. Further consideration is needed of this endpoint.

3,5,5-trimethylhexanoic acid is registered at high tonnages (> 1000 tpa) and, for some exposure scenarios, there is the potential for direct human contact (for example, through the use of metalworking fluids).

5.4 Preliminary indication of information that may need to be requested clarify the concern

	xicological properties	i	☐ Information on physico-chemical properties				
\square Information on fat	e and behaviour	⊠ Information	☑ Information on exposure				
☐ Information on eco	otoxicological propert	ies 🗆 Informatio	☐ Information on uses				
\square Information ED po	tential	☐ Other (pro	☐ Other (provide further details below)				
During substance evaluation details of the effects reported in the developmental study should be requested. Further information or studies might be needed to clarify the concern							
5.5 Potential follow-up and link to risk management							
☐ Harmonised C&L	☐ Restriction	☐ Authorisation	☐ Other (provide further details)				
Further action and risk management measures will depend upon the outcome of the evaluation.							

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